INDEX.

A.

Abel, J. S., and R. I. Morley, on the action of iodide of ethyl on toluidine, 68.
Acetate of capryl, 288.
—— of phenyl, 241.
Acetone, on the action of hydrochloric acid upon a mixture of, and alcohol, 246.
Acid, acetic, sulphuretted, 189.
—— anhydrous sulphuretted acetic, 189.
—— benzoic, an attempt to obtain the acids homologous with, from the corresponding hydrocarbons, 245.
—— on the alcohol corresponding to, by S. Cannizzaro, 192.
Acids, critical observations on Williamson's theory of water, ethers, and, by H. Kolbe, 111.
Acid, hydrochloric, on the action of, upon a mixture of acetone and alcohol, 246.
—— hydroplatino-bisulphocyanic, 35.
—— hydroplatino-tersulphocyanic, 30.
—— hippuric, on the formation of nitride of benzoyl from, by Dr. Limpricht and Von Uslar, 191.
—— nitric, on the decomposition of brucine by, by A. Strecker, 273.
Acids, on a new series of sulphuretted, by A. Kekulé, 188.
—— on the compounds of glycerine with, by M. Berthelot, 282.
—— on the constitution of, and salts, by W. Odling, 1.
Acid, phosphorous, on some new compounds of, by R. Railton, 216.
—— propionic, on a new mode of formation of, by A. Strecker, 276.
—— sulphuric, action of, on the compound $C_7H_{16}O_3$, 229.
—— note on the decomposition of, by pentachloride of phosphorus, by A. Williamson, 180.
—— on the occurrence of ozone and peroxide of hydrogen in the electrolysis of, by H. Meidinger, 251.
—— thiacetic, 189.
Acid, tannic, on the composition of, by A. Strecker, 271.
Adie, R., on some of the thermo-electric properties of the metals zinc and silver, 309.
Alcohol, caprylic, on, and its derivatives, by J. Bouis, 286.
—— on an, in the wax of *Copernicia cerifera*, by N. S. Maskelyne, 192.
—— on the action of hydrochloric acid upon a mixture of acetone and, 246.
—— on the, corresponding to benzoic acid, by S. Cannizzaro, 192.
—— methylic, on the preparation of, by W. Gould, 311.
Ammonia, action of, upon the platino-sulphocyanides, 36.
Ammonia-bases, on the action of chloride of cyanogen on the, by A. Cahours and Cloez, 184.
Amarine, furfurine, and a new base, anisine, on the formation of, by C. Bertagnini, 95.
Ammonium, platino-tersulphocyanide of, 31.
Ammonia, preliminary notice on the action of, on the oils and fats, by Th. H. Rowney, 200.
Analysis, organic, Magnus's gas apparatus for, 250.
Anisine, amarine, and furfurine, on the formation of, by C. Bertagnini, 95.
Anniversary meeting, 144.
Arsenbiethyl, iodide of, 262.
Arsenethylium, 266.
—— chloride of, 267.
—— iodide of, 267.
—— oxide of, 266.
—— sulphate of, 268.
Arsenethyls, or arsenides of ethyl, by H. Landolt, 258.
Arsenides of ethyl, or arsenethyls, by H. Landolt, 258.
Arsenbiethyl, or vinocacodyl, 261.
Arsentriethyl, 263.
—— chloride of, 266.
—— iodide of, 265.
—— nitrate of, 266.

INDEX.

A.

Abel, J. S., and R. I. Morley, on the action of iodide of ethyl on toluidine, 68.
Acetate of capryl, 288.
—— of phenyl, 241.
Acetone, on the action of hydrochloric acid upon a mixture of, and alcohol, 246.
Acid, acetic, sulphuretted, 189.
—— anhydrous sulphuretted acetic, 189.
—— benzoic, an attempt to obtain the acids homologous with, from the corresponding hydrocarbons, 245.
—— on the alcohol corresponding to, by S. Cannizzaro, 192.
Acids, critical observations on Williamson's theory of water, ethers, and, by H. Kolbe, 111.
Acid, hydrochloric, on the action of, upon a mixture of acetone and alcohol, 246.
—— hydroplatino-bisulphocyanic, 35.
—— hydroplatino-tersulphocyanic, 30.
—— hippuric, on the formation of nitride of benzoyl from, by Dr. Limpricht and Von Uslar, 191.
—— nitric, on the decomposition of brucine by, by A. Strecker, 273.
Acids, on a new series of sulphuretted, by A. Kekulé, 188.
—— on the compounds of glycerine with, by M. Berthelot, 282.
—— on the constitution of, and salts, by W. Odling, 1.
Acid, phosphorous, on some new compounds of, by R. Railton, 216.
—— propionic, on a new mode of formation of, by A. Strecker, 276.
—— sulphuric, action of, on the compound $C_7H_{16}O_3$, 229.
—— note on the decomposition of, by pentachloride of phosphorus, by A. Williamson, 180.
—— on the occurrence of ozone and peroxide of hydrogen in the electrolysis of, by H. Meidinger, 251.
—— thiacetic, 189.
Acid, tannic, on the composition of, by A. Strecker, 271.
Adie, R., on some of the thermo-electric properties of the metals zinc and silver, 309.
Alcohol, caprylic, on, and its derivatives, by J. Bouis, 286.
—— on an, in the wax of *Copernicia cerifera*, by N. S. Maskelyne, 192.
—— on the action of hydrochloric acid upon a mixture of acetone and, 246.
—— on the, corresponding to benzoic acid, by S. Cannizzaro, 192.
—— methylic, on the preparation of, by W. Gould, 311.
Ammonia, action of, upon the platino-sulphocyanides, 36.
Ammonia-bases, on the action of chloride of cyanogen on the, by A. Cahours and Cloez, 184.
Amarine, furfurine, and a new base, anisine, on the formation of, by C. Bertagnini, 95.
Ammonium, platino-tersulphocyanide of, 31.
Ammonia, preliminary notice on the action of, on the oils and fats, by Th. H. Rowney, 200.
Analysis, organic, Magnus's gas apparatus for, 250.
Anisine, amarine, and furfurine, on the formation of, by C. Bertagnini, 95.
Anniversary meeting, 144.
Arsenbiethyl, iodide of, 262.
Arsenethylium, 266.
—— chloride of, 267.
—— iodide of, 267.
—— oxide of, 266.
—— sulphate of, 268.
Arsenethyls, or arsenides of ethyl, by H. Landolt, 258.
Arsenides of ethyl, or arsenethyls, by H. Landolt, 258.
Arsenbiethyl, or vinocacodyl, 261.
Arsentriethyl, 263.
—— chloride of, 266.
—— iodide of, 265.
—— nitrate of, 266.

Arsentriethyl, oxide of, 263.
—— sulphide of, 264.
Ash of lemon-juice, analysis of the, by H. M. Witt, 44.
Atacamite, on the composition of a specimen of, from the province of Copiapo, Chili, by F. Field, 193.

B.

Barium, platino-tersulphocyanide of, 31.
—— peroxide of, further experiments as to the reduction of metallic oxides by the, by B. C. Brodie, 304.
Barley, on the produce obtained from, sown in rocks of various ages, by C. Daubeny, 289.
Baryta, sulphocaprylate of, 287.
Bases, on the volatile, produced by destructive distillation of the bituminous shale of Dorsetshire, by C. G. Williams, 97.
Benzoate of ethylo-salicyl, 61.
Benzoate of methylo-salicyl, 61.
Benzochlorhydrin, 284.
Benzol, on a new compound obtained from, by the action of chloride of iodine, by J. Spencer, 244.
Benzoyl, on the formation of nitride of, from hippuric acid, by Dr. Limpricht and Von Uslar, 191.
Bertagnini, C., on the formation of amarine, furfurine, and a new base, anisine, 95.
Berthelot, M., on the compounds of glycerine with acids, 282.
Bouis, J., on caprylic alcohol and its derivatives, 286.
Brodie, B. C., further experiments as to the reduction of metallic oxides by the peroxide of barium, 304.
Bromide of methylo-plumbethyl, 270.
Bromide of selenethyl, 95.
Brucine, on the decomposition of, by nitric acid, by A. Strecker, 273.
Buckton, G. B., on the platino-tersulphocyanides and the platino-bisulphocyanides, two new series of salts, and their decompositions, 22.

C.

Cacotheline, 273.
Cahours, A., and Cloez, on the action of chloride of cyanogen on the ammonia-bases, 184.
Cannizzaro, S., on the alcohol corresponding to benzoic acid, 192.
Capryl, acetate of, 288.
—— chloride of, 288.
—— iodide of, 288.
Caprylic alcohol, on, and its derivatives, by J. Bouis, 286.
Caprylamine, on, by W. S. Squire, 108.
Caprylene, 287.
Carbonate of methylo-plumbethyl, 269.
Carmidine, 103.
Chemical notes, by J. Spencer, 244.
Chloride and iodide of nitrogen, on the so-called, by J. H. Gladstone, 51.
Chloride of arsenethylium, 267.
—— of capryl, 288.
—— of arsentriethyl, 266.
—— of cyanogen, on the action of, on the ammonia-bases, by A. Cahours and Cloez, 184.
—— of iodine, on a new compound obtained from benzol by the action of, by J. Spencer, 244.
—— of methylo-plumbethyl, 270.
—— of phenyl, 238.
—— of selenethyl, 94.
Chlorine gas and nitric acid, on the action of, upon the platino-sulphocyanides, 40.
Chloroform, on some new derivatives of, by G. Kay, 224.
Cinnamon, artificial production of oil of, by A. Strecker, 280.
Cloez and A. Cahours, on the action of chloride of cyanogen on the ammonia-bases, 184.
Coal-tar, on the constitution of commercial creosote from, by J. Fairlie, 232.
Cobalt, on a new saline compound of, by E. St. Evre, 86.
Commercial red prussiate of potash, valuation of, 79.
Copernicia cerifera, on an alcohol in the wax of, by N. S. Maskelyne, 192.
Copper, action of sugar on, 199.
—— platino-tersulphocyanide of, 32.
Cotton, on the substitution-compounds obtained by the action of nitric acid on, by E. A. Hadow, 201.
Creosote, commercial, on the constitution of, from coal-tar, by J. Fairlie, 232.
Cuminate of methylo salicyl, 61.
Cyanic ethers, on the decomposition of the, by A. Wurtz, 91.
Cyanic ethylanilide, 185.
Cyanide of phenyl, 242.
Cyanogen, on the action of chloride of, on the ammonia-bases, by A. Cahours and Cloez, 184.

D.

Daubeny, C., on the produce obtained from barley sown in rocks of various ages, 289.
Dichlorhydrin, 283.
Diethylotoluidine, 72.

Diethylin, 284.
Diplatosammonium, platino-bisulphocyanide of, 39.

E.

Electrolysis, on the occurrence of ozone and peroxide of hydrogen in the, of sulphuric acid, by H. Meidinger, 251.
Ethers, on the decomposition of the cyanic, by A. Wurtz, 91.
—— critical observations on Williamson's theory of water and acids, by H. Kolbe, 111.
Ether, sulphuretted acetic, 190.
Ethylanilide, cyanic, 185.
Ethyl, arsenides of, or arsenethyls, by H. Landolt, 258.
—— on the action of iodide of, on toluidine, by R. I. Morley and J. S. Abel, 68.
—— plumbides of, or plumbethyls, by K. Löwig, 268.
—— selenide of, or selenethyl, by C. A. Joy, 93.
—— thiacetate of, 190.
Ethylo-quinine, 279.
Ethylo-salicyl, benzoate of, 61.
Ethylo-toluidine, 70.
Evre, E. St., on a new saline compound of cobalt, 86.

F.

Fairlie, J., on the constitution of commercial creosote from coal-tar, 232.
Fats, preliminary notice on the action of ammonia on the oils and, by Th. H. Rowney, 200.
Ferricyanide of potassium, solubility of, 80.
Field, F., on the composition of a specimen of atacamite from the province of Copiapo, Chili, 193.
—— on the analysis of a surface-soil from the Desert of Atacama, 308.
Formulæ, on Dr. Kolbe's additive, by A. Williamson, 122.
Frémy, E., new researches on the metals accompanying platinum in the ore, 256.
Furfurine, amarine, and a new base, anisine, on the formation of, by C. Bertagnini, 95.

G.

Gas apparatus, Magnus's, for organic analysis, 250.
Gerhardt, Ch., on some new compounds of salicyl, 60.
Gladstone, J. H., on the corrosive action of sugar on iron and other metals, 195.
Gladstone, J. H., on the so-called iodide and chloride of nitrogen, 51.
Glycerine, on the compounds of, with acids, by M. Berthelot, 282.
Gmelin, Leopold, obituary notice of, 144.
Gould, W., on the preparation of methylic alcohol, 311.

H.

Hadow, E. A., on the substitution-compounds obtained by the action of nitric acid on cotton, 201.
Harrogate, chemical analysis of the mineral waters of, by A. W. Hofmann, 161.
Hofmann, A. W., chemical analysis of the mineral waters of Harrogate, 161.
How, H., note on platinum accompanying silver in solution in nitric acid, 48.
Hydrogen, on the occurrence of ozone and peroxide of, in the electrolysis of sulphuric acid, by H. Meidinger, 251.
Hydrargethyl, on some compounds of hydrargomethyl and, by A. Strecker, 277.
Hydrocyanaldine, on, by A. Strecker, 275.
Hydruret of phenyl, 242.

I.

Iodide and chloride of nitrogen, on the so-called, by J. H. Gladstone, 51.
Iodide of arsenbiethyl, 262.
—— of arsenethylium, 267.
—— of arsentriethyl, 265.
—— of capryl, 288.
—— of ethyl, on the action of, on toluidine, by R. I. Morley and J. S. Abel, 68.
—— of methylo-plumbethyl, 270.
—— of methylo-quinine, 279.
—— of phenyl, 243.
—— of selenethyl, 95.
Iodine, on a new compound obtained from benzol by the action of chloride of, by J. Spencer, 244.
Iron, platino-tersulphocyanide of, 27.
—— on the corrosive action of sugar on, and other metals, by J. H. Gladstone, 195.

J.

Joy, C. A., on selenide of ethyl, or selenethyl, 93.

K.

Kay, G., on some new derivatives of chloroform, 224.
Kekulé, A., on a new series of sulphuretted acids, 188.

Kolbe, H., critical observations on Williamson's theory of water, ethers, and acids, 111.
Kolbe's additive formulæ, by A. Williamson, 122.

L.

Landolt, H., arsenides of ethyl, or arsenethyls, 258.
Laurent, Auguste, obituary notice of, 149.
Lead, action of sugar on, 199.
—— platino-tersulphocyanide of, 29.
Lemon-juice, analysis of the ash of, by H. M. Witt, 44.
Limpricht, Dr., and Von Uslar, on the formation of nitride of benzoyl from hippuric acid, 191.
Löwig, K., plumbides of ethyl, or plumbethyls, 268.

M.

Magnus's gas apparatus for organic analysis, 250.
Maskelyne, N. S., on an alcohol in the wax of *Copernicia cerifera*, 192.
Meidinger, H., on the occurrence of ozone and peroxide of hydrogen in the electrolysis of sulphuric acid, 251.
Mercury, action of sugar on, 199.
—— subplatino-tersulphocyanide of, 26.
Metals, new researches on the, accompanying platinum in the ore, by E. Frémy, 256.
—— on the corrosive action of sugar on iron and other, by J. H. Gladstone, 195.
Methyl, nitrite of, 274.
Methylic alcohol, on the preparation of, by W. Gould, 311.
Methylo-plumbethyl, 268.
———— bromide of, 270.
———— carbonate of, 269.
———— chloride of, 270.
———— iodide of, 270.
———— nitrate of, 270.
———— oxide of, 269.
———— sulphate of, 269.
Methylo-salicyl, benzoate of, 61.
———— cuminate of, 61.
———— succinate of, 61.
Methylo-quinine, iodide of, 279.
Morley, R. I., and J. S. Abel, on the action of iodide of ethyl on toluidine, 68.

N.

Nitrate of arsentriethyl, 266.
—— of methylo-plumbethyl, 270.
—— of quinine, 278.
—— of selenethyl, 94.
Nitric acid and chlorine gas, on the action of, upon the platino-sulphocyanides, 40.
Nitric acid, on the substitution-compounds obtained by the action of, on cotton, by E. A. Hadow, 201.
Nitride of benzoyl, on the formation of, from hippuric acid, by Dr. Limpricht and Von Uslar, 191.
Nitrite of methyl, 274.
Nitrogen, on the so-called iodide and chloride of, by J. H. Gladstone, 51.
Nitroglycerine, on, and the products of its decomposition by potash, by R. Railton, 222.
Nitrophosphate of phenyl, 242.

O.

Obituary notice of Auguste Laurent, 149.
———— of Leopold Gmelin, 144.
Odling, W., on the constitution of acids and salts, 1.
Oil of cinnamon, artificial production of, by A. Strecker, 280.
Oils, preliminary notice on the action of sugar on the, and fats, by T. H. Rowney, 200.
Organic analysis, Magnus's gas apparatus for, 250.
Organic chemistry, researches in, by A. Strecker, 271.
Othyl, sulphide of, 189.
—— thiacetate of, 189.
Oxichloride of selenethyl, 95.
Oxide of arsenethylium, 266.
—— of arsentriethyl, 263.
—— of methylo-plumbethyl, 269.
—— of phenyl, 242.
—— of triethylo-toluylammonium, 73.
Oxides, notice of further experiments on the reduction of metallic, by peroxide of barium, by B. C. Brodie, 304.
Ozone, on the occurrence of, and peroxide of hydrogen in the electrolysis of sulphuric acid, by H. Meidinger, 251.

P.

Penny, Dr., note on the valuation of protochloride of tin, 50.
Pentachloride of phosphorus, note on the decomposition of sulphuric acid by, by A. Williamson, 180.
Peroxide of barium, further experiments as to the reduction of metallic oxides by the, by B. C. Brodie, 304.
Peroxide of hydrogen, on the occurrence of ozone and, in the electrolysis of sulphuric acid, by H. Meidinger, 251.

Phenyl, acetate of, 241.
—— chloride of, 238.
—— cyanide of, 242.
—— hydruret of, 242.
—— iodide of, 243.
—— nitrophosphate of, 242.
—— on some new compounds of, by H. Scrugham, 237.
—— oxide of, 242.
—— tribasic phosphate of, 240.
Phosphate of phenyl, tribasic, 240.
Phosphorus, note on the decomposition of sulphuric acid by pentachloride of, by A. Williamson, 180.
Platino-bisulphocyanide of diplatosammonium, 39.
———— of potassium, 32.
———— of silver, 34.
Platino-sulphocyanides, action of ammonia upon the, 36.
———— on the action of chlorine gas and nitric acid upon the, 40.
Platino-tersulphocyanide of ammonium, 31.
———— of barium, 31.
———— of copper, 32.
———— of iron, 27.
———— of lead, 29.
———— of potassium, 25.
———— of silver, 28.
———— of sodium, 32.
Platino-tersulphocyanides, on the, and the platino-bisulphocyanides, two new series of salts, and their decompositions, by G. B. Buckton, 22.
Platinum, new researches on the metals accompanying, in the ore, by E. Frémy, 256.
—— note on, accompanying silver in solution in nitric acid, by H. How, 48.
Platinum-salt of ethylotoluidine, 70.
Platosammonium, sulphocyanide of, 38.
Plumbethyls, or plumbides of ethyl, by K. Löwig, 268.
Potash, on nitroglycerine and the products of its decomposition by, by R. Railton, 232.
—— on red prussiate of, by W. Wallace, 77.
—— sulphocaprylate of, 288.
Potassium, platino-bisulphocyanide of, 32.
—— platino-tersulphocyanide of, 25.
—— solubility of ferricyanide of, 80.
President's address, 144.
Proceedings at the meetings of the Chemical Society, 81, 140.
Protochloride of tin, note on the valuation of, by Dr. Penny, 50.
Prussiate of potash, on red, by W. Wallace, 77.

Q.

Quinine, nitrate of, 278.
—— on the constitution of, by A. Strecker, 278.
—— sulphate of, 278.

R.

Railton, R., on nitroglycerine and the products of its decomposition by potash, 222.
—— on some new compounds of phosphorous acid, 216.
Report of the Council, 144.
—— of the Treasurer, 160.
Rocks, on the produce obtained from barley sown in, of various ages, by C. Daubeny, 289.
Rowney, T. H., preliminary notice on the action of ammonia on the oils and fats, 200.
Russell, W. J., on a new method of estimating sulphur, 212.

S.

Salicyl, on some new compounds of, by Ch. Gerhardt, 60.
Salted herrings, on the existence of trimethylamine in the brine of, by G. H. Winkles, 63.
Salts, on the constitution of acids and, by W. Odling, 1.
Scrugham, H., on some new compounds of phenyl, 237.
Selenethyl, bromide of, 95.
—— chloride of, 94.
—— iodide of, 95.
—— nitrate of, 94.
—— on selenide of ethyl or, by C. A. Joy, 93.
—— oxichloride of, 95.
Selenide of ethyl, or selenethyl, by C. A. Joy, 93.
Shale, on the volatile bases produced by destructive distillation of the bituminous, of Dorsetshire, by C. G. Williams, 97.
Silver, on some thermo-electric properties of zinc and, by R. Adie, 309.
Silver, action of sugar on, 199.
—— note on platinum accompanying, in solution in nitric acid, by H. How, 48.
—— platino-bisulphocyanide of, 34.
—— platino-tersulphocyanide of, 28.
Sodium, platino-tersulphocyanide of, 32.
Soil, on the analysis of a surface-, from the Desert of Atacuma, by F. Field, 308.
Spencer, J., on a new compound obtained from benzol by the action of chloride of iodine, 244.

Squire, W. S., on caprylamine, 108.
Subplatino-tersulphocyanide of mercury, 26.
Substitution-compounds, on the, obtained by the action of nitric acid on cotton, by E. A. Hadow, 201.
Succinate of methylo-salicyl, 61.
Sugar, on the corrosive action of, on iron and other metals, by J. H. Gladstone, 195.
Sulphate of arsenethylium, 268.
—— of methylo-plumbethyl, 269.
—— of quinine, 278.
Sulphide of arsentriethyl, 264.
—— of ethyl, 189.
Sulphocaprylate of baryta, 287.
Sulphocyanide of platosammonium, 38.
Sulphocaprylate of potash, 288.
Sulphuretted acetic ether, 190.
Sulphuretted acids, on a new series of, by A. Kekulé, 188.
Sulphur, on a new method of estimating, by W. J. Russell, 212.
Strecker, A., researches in organic chemistry, 271.

T.

Taurin, on the artificial production of, by A. Strecker, 281.
Thermo-electric properties of zinc & silver, 309.
Thiacetate of ethyl, 190.
—— of othyl, 189.
Tin, action of sugar on, 199.
—— note on the valuation of protochloride of, by Dr. Penny, 50.
Toluidine, on the action of iodide of ethyl on, by R. I. Morley and J. S. Abel, 68.
Triacetin, 282.
Tribenzoicin, 282.
Tributyrin, 282.
Triethylo-toluylammonium, oxide of, 73.
Trimargarin, 283.
Trimethylamine, on the existence of, in the brine of salted herrings, by G. H. Winkles, 63.
Triolein, 282.
Tripalmitin, 283.
Trivalerin, 282.

U.

Uslar, Von, and Dr. Limpricht, on the formation of nitride of benzoyl from hippuric acid, 191.

V.

Vertidine, 99.
Vinacacodyl, or arsenbiethyl, 261.

W.

Wallace, W., on red prussiate of potash, 77.
Water, ethers, and acids, critical observations on Williamson's theory of, by H. Kolbe, 111.
Waters, chemical analysis of the mineral, of Harrogate, by A. W. Hofmann, 161.
Wax, on an alcohol in the, of the *Copernicia cerifera*, by N. S. Maskelyne, 192.
Williams, C. G., on the volatile bases produced by destructive distillation of the bituminous shale of Dorsetshire, 97.
Williamson, A., note on the decomposition of sulphuric acid by pentachloride of phosphorus, 180.
—— on Dr. Kolbe's additive formulæ, 122.
—— theory of water, ethers, and acids, critical observations on, by H. Kolbe, 111.
Winkles, G. H., on the existence of trimethylamine in the brine of salted herrings, 63.
Witt, H. M., analysis of the ash of lemon-juice, 44.
Wurtz, A., on the decomposition of the cyanic ethers, 91.

Z.

Zinc, action of sugar on, 199.
—— on some thermo-electric properties of, and silver, by R. Adie, 309.

END OF VOL. VII.

LONDON:
WILSON and OGILVY,
Skinner Street.